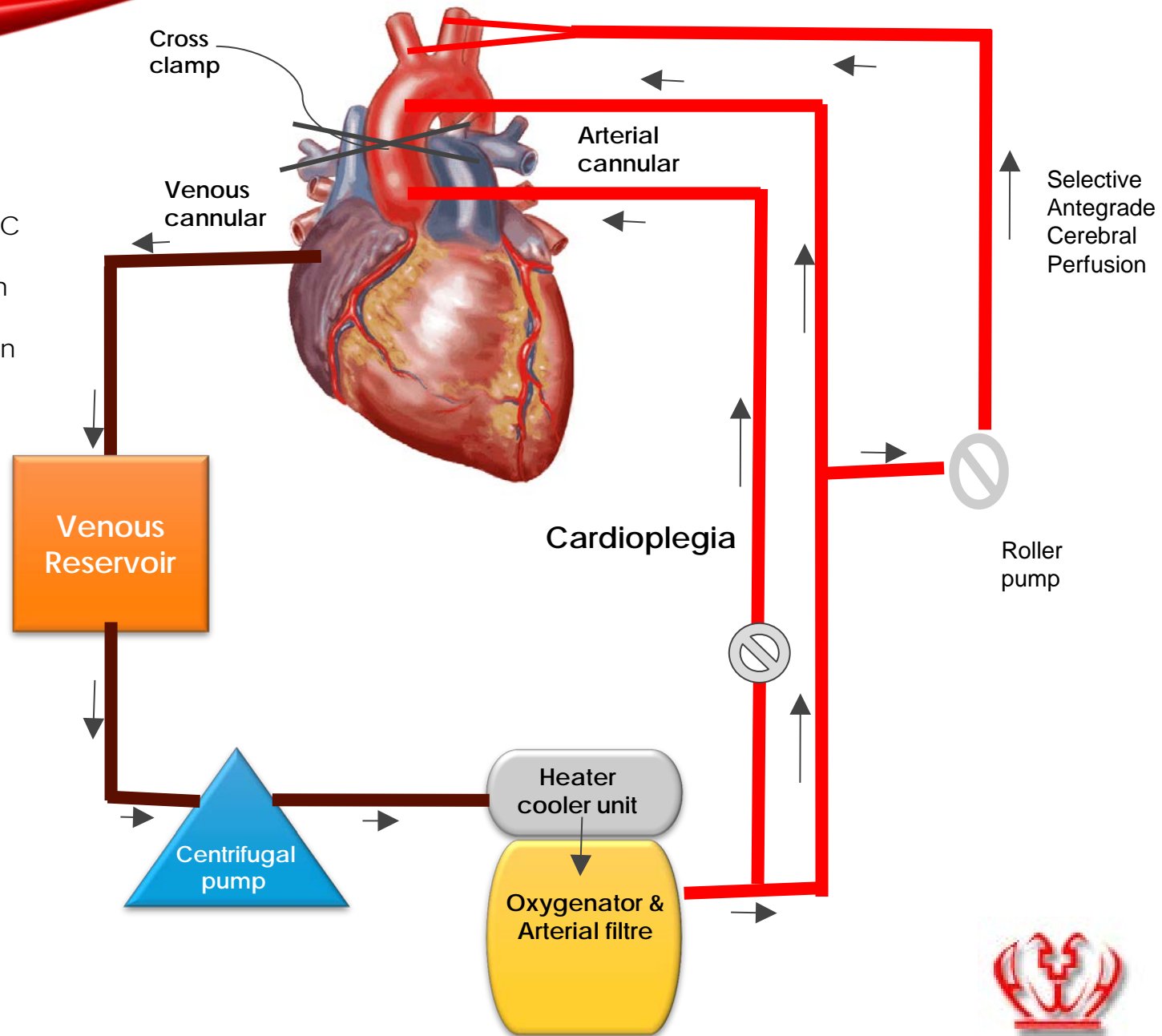


# **New Era in Aortic Surgery Using Selective Antegrade Cerebral Perfusion and Moderate Hypothermia at the Prince of Wales Hospital**

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Moderate hypothermia  
& Selective antegrade  
cerebral perfusion

- Circulatory arrest at 25°C
- Both the bronchopulmonary artery and left common carotid artery are perfused at 10ml/kg/min



# Perioperative Data

	2013-2016	2009-2012
Age	21-82 ( $\mu=55$ )	33-77 ( $\mu=57.9$ )
Number of Cases	132 Elective 22   Emergency 111	61 Elective 11   Emergency 50
Cardiopulmonary Bypass Time	121-543 ( $\mu = 252.7$ ) mins	161-400 ( $\mu = 242.5$ ) mins
Cardiac Ischaemia Time	42-297 ( $\mu = 133.3$ ) mins	70-185 ( $\mu = 114.1$ ) mins
Circulatory Arrest Time	10-133 ( $\mu = 53.5$ ) mins	15-70 ( $\mu = 36.9$ ) mins
Selective Antegrade Cerebral Perfusion Time	12-235 ( $\mu = 65$ ) mins	N/A
Core Temperature ( $^{\circ}\text{C}$ )	$25 \pm 2$	$18 \pm 2$



# Postoperative Data

		2013-2016	2009-2012
Number of Cases		132	61
ICU Stay		2-42 ( $\mu = 6.4$ ) days	2-52 ( $\mu = 8$ ) days
Hospital Stay		6-87 ( $\mu = 22$ ) days	6-87 ( $\mu = 22$ ) days
Postoperative Complication	<i>Confusion</i>	23 patients	16 patients
	<i>Convulsion</i>	12 patients	8 patients
	<i>Transient Neurological Deficit</i>	10 patients	7 patients
	<i>Permanent Neurological Deficit</i>	7 patients	12 patients
30-day Mortality		14 cases   10.6%	13 cases   21.3%
<i>Elective</i>		1 case   4.5%	2 cases   18.2%
<i>Emergency</i>		13 cases   11.7%	11 cases   22.0%



THANK YOU!

